

	Application No.	Applicant(s)
		Applicantis
	09/516,653	DOYLE, BRIAN
Notice of Allowability	Examiner	Art Unit
	Brook Kebede	2823
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS (0 herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY of the Office or upon petition by the applicant. See 37 CFR 1.313 and the Office of the Offi	OR REMAINS) CLOSED in r other appropriate commus HTS. This application is s	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to 14 April 2005.		
2. X The allowed claim(s) is/are 1-10,12,16-22 and 24-26.		
3. $igotimes$ The drawings filed on 31 March 2005 are accepted by the E.	xaminer.	
4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the:  1. Certified copies of the priority documents have to certified copies of the priority documents have to copies of the certified copies of the priority documents have to copies of the certified copies of the priority documents have to copies of the certified copies of the priority documents have to copies of the priority documents here to copies of the priority documents have to copies of t	peen received. peen received in Application peen received in Application peen received fithis communication to file part of this application. ped. Note the attached EXA preason(s) why the oath or	n No  I in this national stage application from the a reply complying with the requirements
(a) ☐ including changes required by the Notice of Draftsperso		( PTO-948) attached
1)  hereto or 2)  to Paper No./Mail Date		(1.000.0)
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the header according to 37 CF	e drawings in the front (not the back) of R 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT Formula</li> </ol>	t of BIOLOGICAL MATE OR THE DEPOSIT OF BIO	RIAL must be submitted. Note the DEOGICAL MATERIAL.
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	_	ormal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ımmary (PTO-413), Mail Date
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08         Paper No./Mail Date     </li> </ol>		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9.	•
		BYOOU Kekedl BROOK KEBEDE PATENT EXAMINER

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of Species I (i.e., claims 1-10, 12, 16-22 and 24-26) in the reply filed on April 14, 2005 is acknowledged.

## **Drawings**

2. The formal drawings were received on March 31, 2005. These drawings are acceptable.

## Remarks

3. Although applicant indicates that claims 1-10, 12, 16-22, and 24-26 are the only pending claims in the application, there is no clear record that indicates cancellation of the previous non-elected claims, i.e., claims 29-38. In addition, applicant also indicates an intention to cancel the non-elected claims, i.e., claims 39-47 and 49-61, in response to the restriction requirement of March 23, 2005. In order to remove ambiguity, the examiner contacted Mr. Michael A. Bernadicou over the phone and acquired authorization of cancellation of all the non-elected claims as set forth in the examiner's amendment herein below.

## **EXAMINER'S AMENDMENT '**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael A. Bernadicou on June 21, 2005.

5. The application has been amended as follows:

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### In the Claims:

Cancel claims 29-47 and 49-61.

Change claim 1 to --A method of forming a device comprising: patterning a first oxide upon a substrate; forming a first nitride spacer mask upon the first oxide; forming a first oxide spacer mask upon the first nitride spacer mask; forming a second nitride spacer mask upon the first oxide spacer mask; forming a plurality of channels in the substrate that are aligned to the second nitride spacer mask, wherein adjacent channels have a width and are spaced apart by a trench that is at least as wide as each of the channels, and wherein a doping region is disposed in the substrate beneath the trench that resists electrical communication between adjacent spaced-apart channels; and forming a gate layer over the plurality of channels, wherein the channel width of each of the plurality of channels is narrower than the mean free path of electron flow.--.

# Allowable Subject Matter

6. Claims 1-10, 12, 16-22 and 24-26 are allowed over prior art of record.

# Reasons for Allowance

7. The following is an examiner's statement of reasons for allowance:

After further search and reconsideration of applicant's response, it is determined that the rejection of claims 1-10, 12, 16-22 and 24-26 under 35 U.S.C. § 103(a) cannot be sustained as set forth in 35 U.S.C. § 103(c) (see Applicant's response in Page 15 that was filed on June 14, 2004).

#### Conclusion

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Correspondence

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brook Kebede whose telephone number is (571) 272-1862. The

examiner can normally be reached on 8-5 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on (571) 272-1855. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brook Kebede

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Examiner

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BK

June 22, 2005